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RAW SEQUENCE LISTING

DATE: 07/14/1999

PATENT APPLICATION US/09/272,809

TIME: 11:07:08

Input Set: I272809.RAW

This Raw Listing contains the General Information  
Section and up to first 5 pages.

ENTERED

1 <110> APPLICANT: Lagarias, John C.  
2 <120> TITLE OF INVENTION: Phytofluors as fluorescent labels  
3 <130> FILE REFERENCE: 2500.118US0  
4 <140> CURRENT APPLICATION NUMBER: US/09/272,809  
5 <141> CURRENT FILING DATE: 1998-03-19  
6 <160> NUMBER OF SEQ ID NOS: 24  
7 <170> SOFTWARE: PatentIn Ver. 2.0  
8 <210> SEQ ID NO 1  
9 <211> LENGTH: 748  
10 <212> TYPE: PRT  
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12 <220> FEATURE:  
13 <223> OTHER INFORMATION: Description of Unknown Organism: Locus SLR0473 =  
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20 Val Val Leu Gln Glu Pro Asp Leu Thr Ile Ser Gln Ile Ser Ala Asn  
21 35 40 45  
22 Cys Thr Gly Ile Leu Gly Arg Ser Pro Glu Asp Leu Leu Gly Arg Thr  
23 50 55 60  
24 Leu Gly Glu Val Phe Asp Ser Phe Gln Ile Asp Pro Ile Gln Ser Arg  
25 65 70 75 80  
26 Leu Thr Ala Gly Gln Ile Ser Ser Leu Asn Pro Ser Lys Leu Trp Ala  
27 85 90 95  
28 Arg Val Met Gly Asp Asp Phe Val Ile Phe Asp Gly Val Phe His Arg  
29 100 105 110  
30 Asn Ser Asp Gly Leu Leu Val Cys Glu Leu Glu Pro Ala Tyr Thr Ser  
31 115 120 125  
32 Asp Asn Leu Pro Phe Leu Gly Phe Tyr His Met Ala Asn Ala Ala Leu  
33 130 135 140  
34 Asn Arg Leu Arg Gln Gln Ala Asn Leu Arg Asp Phe Tyr Asp Val Ile  
35 145 150 155 160  
36 Val Glu Glu Val Arg Arg Met Thr Gly Phe Asp Arg Val Met Leu Tyr  
37 165 170 175  
38 Arg Phe Asp Glu Asn Asn His Gly Asp Val Ile Ala Glu Asp Lys Arg  
39 180 185 190  
40 Asp Asp Met Glu Pro Tyr Leu Gly Leu His Tyr Pro Glu Ser Asp Ile  
41 195 200 205  
42 Pro Gln Pro Ala Arg Arg Leu Phe Ile His Asn Pro Ile Arg Val Ile  
43 210 215 220  
44 Pro Asp Val Tyr Gly Val Ala Val Pro Leu Thr Pro Ala Val Asn Pro

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50	Leu Thr Ile Ser Leu Ile Lys Asp Gly His Leu Trp Gly Leu Ile Ala			
51		275	280	285
52	Cys His His Gln Thr Pro Lys Val Ile Pro Phe Glu Leu Arg Lys Ala			
53		290	295	300
54	Cys Glu Phe Phe Gly Arg Val Val Phe Ser Asn Ile Ser Ala Gln Glu			
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62	Ala Ile Cys Phe Gly Glu Lys Leu Ile Leu Val Gly Glu Thr Pro Asp			
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64	Glu Lys Ala Val Gln Tyr Leu Leu Gln Trp Leu Glu Asn Arg Glu Val			
65	385	390	395	400
66	Gln Asp Val Phe Phe Thr Ser Ser Leu Ser Gln Ile Tyr Pro Asp Ala			
67		405	410	415
68	Val Asn Phe Lys Ser Val Ala Ser Gly Leu Leu Ala Ile Pro Ile Ala			
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70	Arg His Asn Phe Leu Leu Trp Phe Arg Pro Glu Val Leu Gln Thr Val			
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76	Ile Val Arg Leu Gln Ser Leu Pro Trp Gln Ser Val Glu Ile Gln Ser			
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78	Ala Leu Ala Leu Lys Lys Ala Ile Val Asn Leu Ile Leu Arg Gln Ala			
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88	Val Ser Leu Met Gln Thr Leu Ile Asp Asp Ile Leu Thr Tyr Ala Lys			
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90	Val Asp Thr Gln Tyr Ala Gln Leu Thr Phe Thr Asp Val Gln Glu Val			
91		595	600	605
92	Val Asp Lys Ala Leu Ala Asn Leu Lys Gln Arg Ile Glu Glu Ser Gly			
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94	Ala Glu Ile Glu Val Gly Ser Met Pro Ala Val Met Ala Asp Gln Ile			

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100     Asp Ala Trp Val Phe Ala Val Gln Asp Asn Gly Ile Gly Ile Asp Pro
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102     Gln Phe Phe Glu Arg Ile Phe Val Ile Phe Gln Arg Leu His Thr Arg
103              690      695      700
104     Asp Glu Tyr Lys Gly Thr Gly Met Gly Leu Ala Ile Cys Lys Lys Ile
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106     Ile Glu Gly His Gln Gly Gln Ile Trp Leu Glu Ser Asn Pro Gly Glu
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110 <210> SEQ ID NO 2
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122             35          40          45
123     Phe Ala Ser Asp Gly Ser Gly Glu Val Leu Ala Glu Ala Val Asn Arg
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125     Ala Ala Leu Pro Ser Leu Leu Gly Leu His Phe Pro Val Glu Asp Ile
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127     Pro Pro Gln Ala Arg Glu Glu Leu Gly Asn Gln Arg Lys Met Ile Ala
128             85          90          95
129     Val Asp Val Ala His Arg Arg Lys Lys Ser His Glu Leu Ser Gly Arg
130             100         105         110
131     Ile Ser Pro Thr Glu His Ser Asn Gly His Tyr Thr Thr Val Asp Ser
132             115         120         125
133     Cys His Ile Gln Tyr Leu Leu Ala Met Gly Val Leu Ser Ser Leu Thr
134             130         135         140
135     Val Pro Val Met Gln Asp Gln Gln Leu Trp Gly Ile Met Ala Val His
136             145         150         155         160
137     His Ser Lys Pro Arg Arg Phe Thr Glu Gln Glu Trp Glu Thr Met Ala
138             165         170         175
139     Leu Leu Ser Lys Glu Val Ser Leu Ala Ile Thr Gln Ser Gln Leu Ser
140             180         185         190
141     Arg Gln Val His Gln Gln Gln Val Gln Glu Ala Leu Val Gln Arg Leu
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143     Glu Thr Thr Val Ala Gln Tyr Gly Asp Arg Pro Glu Thr Trp Gln Tyr
144             210         215         220

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161	Val	Gly	Ser	Leu	Ile	Leu	Leu	Arg	Lys	Glu	Lys	Ser	Leu	Val	Lys	His
162			355					360					365			
163	Trp	Ala	Gly	Lys	Arg	Gly	Ile	Asp	Arg	Arg	Asn	Ile	Leu	Pro	Arg	Leu
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165	Ser	Phe	Glu	Ala	Trp	Glu	Glu	Thr	Gln	Lys	Leu	Val	Pro	Thr	Trp	Asn
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167	Arg	Ser	Glu	Arg	Lys	Leu	Ala	Gln	Val	Ala	Ser	Thr	Gln	Leu	Tyr	Met
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191	Tyr	Gln	Phe	Tyr	Arg	Pro	Gln	Asp	Ser	Ala	Pro	Met	Leu	Asp	Arg	Leu
192			595					600					605			
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197	Val Glu Ala Leu Val Arg Trp Gln His Pro Arg Leu Gly Gln Val Ala
198	645 650 655
199	Pro Asp Val Phe Ile Pro Leu Ala Glu Glu Leu Gly Leu Ile Asn His
200	660 665 670
201	Leu Gly Gln Trp Val Leu Glu Thr Ala Cys Ala Thr His Gln His Phe
202	675 680 685
203	Phe Arg Glu Thr Gly Arg Arg Leu Arg Met Ala Val Asn Ile Ser Ala
204	690 695 700
205	Arg Gln Phe Gln Asp Glu Lys Trp Leu Asn Ser Val Leu Glu Cys Leu
206	705 710 715 720
207	Lys Arg Thr Gly Met Pro Pro Glu Asp Leu Glu Leu Glu Ile Thr Glu
208	725 730 735
209	Ser Leu Met Met Glu Asp Ile Lys Gly Thr Val Val Leu Leu His Arg
210	740 745 750
211	Leu Arg Glu Glu Gly Val Gln Val Ala Ile Asp Asp Phe Gly Thr Gly
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213	Tyr Ser Ser Leu Ser Ile Leu Lys Gln Leu Pro Ile His Arg Leu Lys
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215	Ile Asp Lys Ser Phe Val Asn Asp Leu Leu Asn Glu Gly Ala Asp Thr
216	785 790 795 800
217	Ala Ile Ile Gln Tyr Val Ile Asp Leu Ala Asn Gly Leu Asn Leu Glu
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231	Leu Lys Glu Arg Leu Gln Gln Arg Asn Val Lys Glu Lys Leu Val Leu
232	915 920 925
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234	930 935 940
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236	945 950 955 960
237	Val Leu Phe Lys Phe Asn Ser Gln Trp Ser Gly Gln Val Val Thr Glu
238	965 970 975
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240	980 985 990
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VERIFICATION SUMMARY  
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